Panasonic

CD Player/Receiver with CD Changer Control

CQ-RDP162/RDP112N

CD Player/Receiver

CQ-RDP152/RDP142/RDP102N

Operating Instructions
Bedienungsanleitung
Manuel d'instructions
Gebruiksaanwijzing
Bruksanvisning
Manuale di istruzioni
Manual de Instrucciones
Instrukcja obsługi

- English : Please read these instructions carefully before using this product.
- Deutsch : Bitte lesen Sie diese Anleitung sorgfältig, bevor Sie das Produkt in Gebrauch nehmen.
- Français : Lisez attentivement ces instructions avant d'utiliser le produit.
- Nederlands : Leest u deze handleiding alstublieft zorgvuldig door voor u dit product gaat gebruiken.
- Svenska : Läs dessa anvisningar noggrant innan denna produkt tas i bruk.
- Italiano : Si prega di leggere attentamente queste istruzioni prima di utilizzare questo prodotto.
- Español : Lea estas instrucciones antes de poner en funcionamiento este aparato.
- Polski : Przed rozpoczęciem używania urządzenia prosimy o dokładne przeczytanie instrukcji.

COMPACT disc DIGITAL AUDIO

PANASONIC INTELLIGENT RDS

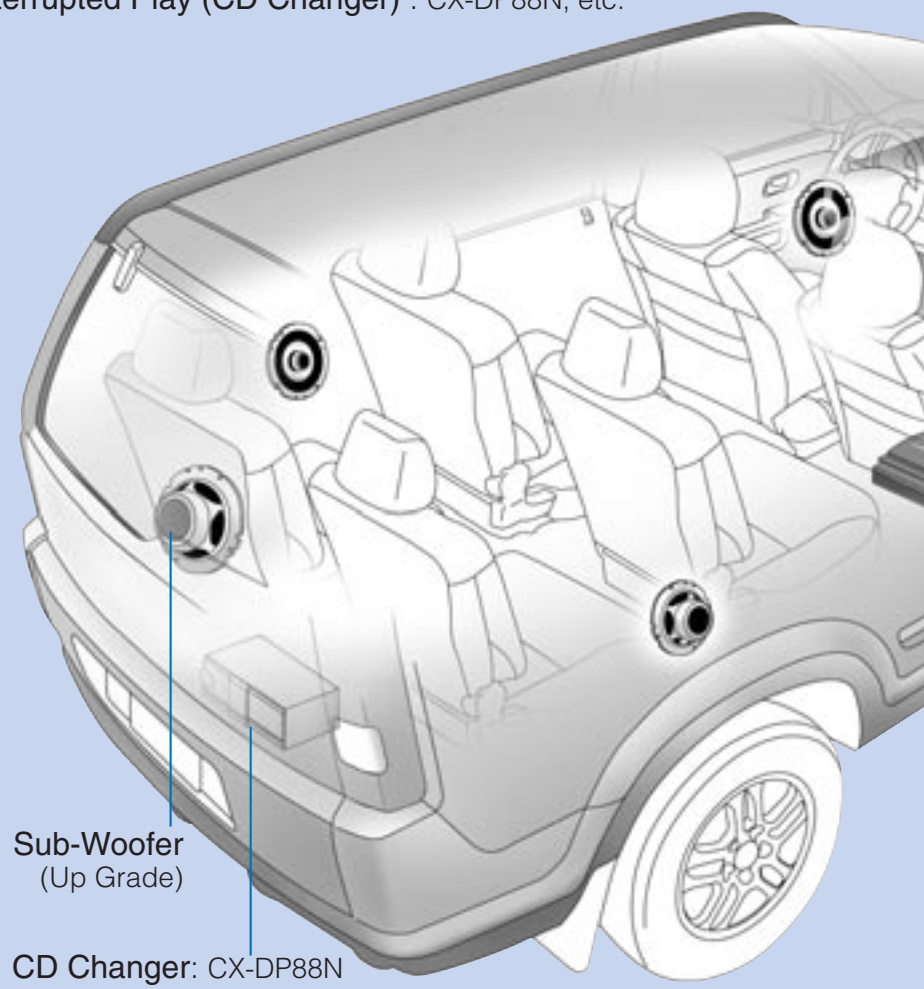
English
Deutsch
Français
Nederlands
Svenska
Italiano
Español
Polski

Thank you very much for purchasing a Panasonic CD Player/Receiver.
Panasonic welcomes you to the growing owners' family of our advanced electronic products.
We make every endeavor to offer you the significant advantages of the most up-to-date electronic and mechanical engineering, manufactured with carefully and optimally selected components and assembled by the people who are proud of their excellent reputation established over the years.
We know this product will bring you many hours of enjoyment.
After you realize its quality, value and reliability,
we are sure that you are proud to be a member of our family.

Fantastic —— Sound

Sophisticated Product Achieved by Optional Functions

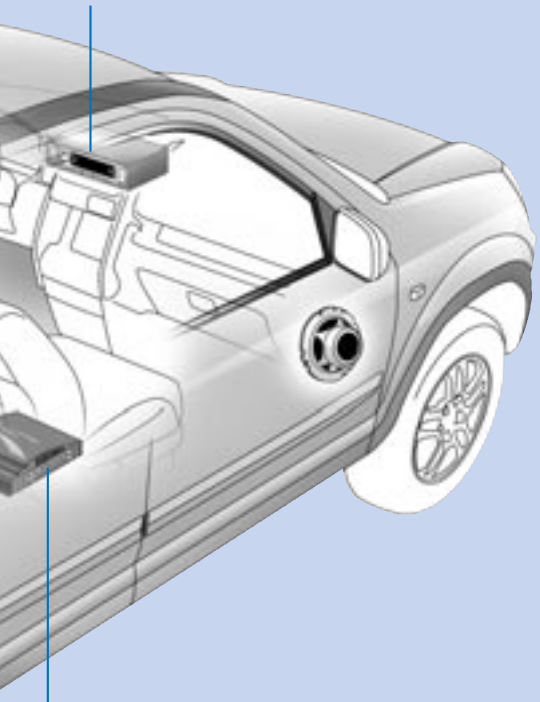
- ■ Sound System with Spurting Realism (2-channel Power Amplifier)
- ■ Powerful Heavy Bass(Stereo/Mono Power Amplifier) : CY-M7052EN
- ■ Smooth Uninterrupted Play (CD Changer) : CX-DP88N, etc.



English

Space I

CQ-RDP162N CQ-RDP112N
CQ-RDP152N CQ-RDP142N
CQ-RDP102N



Stereo/Mono
Power Amplifier :
CY-M7052EN
(Up Grade)

Contents

- Specifications 3
- Introduction 4
- Power and Audio Controls 6
- Radio Basics 7
  Radio Data System (RDS) 8
- CD Player and CD Changer 10
- Troubleshooting 11

Refer to the Installation Instructions supplied separately for installation and wiring.

Specifications

■ General

Power Supply	DC 12 V (11 V - 16 V), Test Voltage 14.4 V, Negative Ground
Tone Controls (Bass) Tone Controls (Treble)	±12 dB at 100 Hz ±12 dB at 10 kHz
Current Consumption	Less than 2.5 A (CD mode, 0.5 W 4-Speaker)
Maximum Power Output	45 W x 4 (at 4 Ω)
Power Output	20 W x 4 (DIN45 324, at 4 Ω)
Speaker Impedance	4 - 8 Ω
Pre-Amp Output Voltage	2 V (CD mode)
Pre-Amp Output Impedance	600 Ω
Dimensions (Main Unit)	178(W) x 50(H) x 150(D) mm
Weight (Main Unit)	1.4 kg

■ Stereo Radio

FM	Frequency Range	87.5 - 108 MHz
	Usable Sensitivity	6 dB/µV(S/N 30 dB)
	Stereo Separation	35 dB (at 1 kHz)
MW	Frequency Range	531 - 1 602 kHz
	Usable Sensitivity	28 dB/µV (S/N 20 dB)
LW	Frequency Range	153 - 279 kHz
	Usable Sensitivity	32 dB/µV (S/N 20 dB)

■ CD Player

Sampling Frequency	8 times oversampling
DA Converter	MASH 1 bit/4 DAC System
Error Correction System	Panasonic Super Decoding Algorithm
Pick-Up Type	Astigma 3-beam
Light Source	Semiconductor laser
Wavelength	780 nm
Frequency Response	20 Hz - 20 kHz (±1 dB)
Signal to Noise Ratio	96 dB
Total Harmonic Distortion	0.01 % (1 kHz)
Wow and Flutter	Below measurable limits
Channel Separation	75 dB

Note

- Specifications and design are subject to modification without notice due to improvements.

Introduction

Cautions

This product is a class I laser product.
Note that this product uses a visible/invisible laser beam which could cause hazardous radiation exposure if directed.
Be sure to operate this product correctly as instructed.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Laser products:
Wave length: 780 nm
Laser power: No hazardous radiation is emitted with safety protection.

Precaution

■ For safe driving
- Moderate the volume not to miss traffic information.

■ Shorting prevention
- Do not get this unit wet.

■ CD slot
- Do not insert anything other than a CD.

■ Power supply
- 12-volt negative ground battery system.

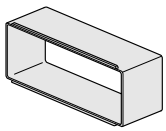
Product service, repair and inquiry
- Consult your nearest Panasonic Service Center.

Note

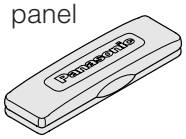
Protection of preset memory
Never disconnect the battery power cord.

Accessories

①Mounting collar

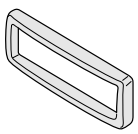


④Case for the removable front panel

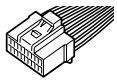


②Bolt

⑤Trim plate

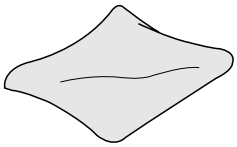


③Power connector



Maintenance

■ Cleaning

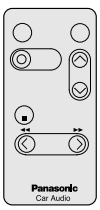


- Wipe the unit with a soft dry cloth.

- Never apply volatile liquids such as benzine and thinner to prevent damage.

Options (Sold separately)

- Remote control (CA-RC61EX)



- CD Changer (For CQ-RDP162 /RDP112N)

CX-DP88N

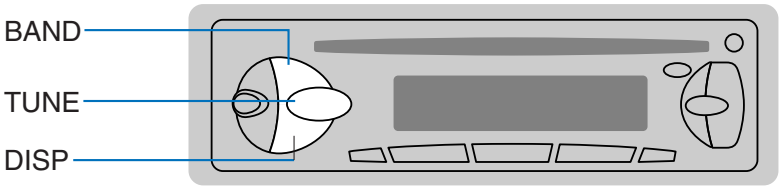
Note

- This operating instruction manual applies to the five models below. All illustrations represent model CQ-RDP162N unless otherwise specified.

Illumination color	Models	Changer Control	
	CQ-RDP162N	Yes	Amber
	CQ-RDP152N	None	Amber
	CQ-RDP142N	None	Red
	CQ-RDP112N	Yes	Green

Clock Setting

Clock can be set only in **AM radio mode.**



Note

FM RDS CT service adjusts your clock automatically.
If you cannot get RDS CT service, set the clock as follows.

@ SOURCE Press → FM 1 87.50 (Radio mode)

A BAND Press → AM 153 (AM mode)

B DISP Press → NO CT (NO CT)

C DISP Hold down for over 2 sec. → CT 0:00 (Blink: Hours)

D <TUNE> TRACK Press → CT 10:00 (Hours set)

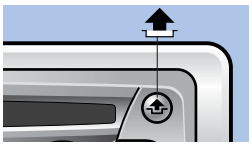
E DISP Press → CT 10:00 (Blink: Minutes)

F <TUNE> TRACK Press → CT 10:35 (Minutes set)

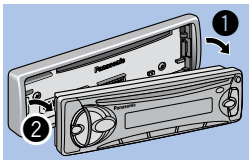
G DISP Press → CT 10:35 (Completed)

Theft prevention

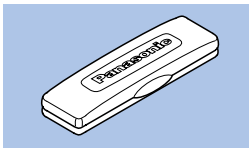
■ Take the front panel with you when getting off the car.

1 

[⏏] : Release the front panel.

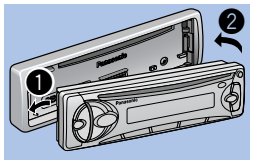
2 

❶ Pull the right side.
❷ Slide the left side.
➡ detach the panel.

3 

Put the panel into the case ④.

■ Install the front panel



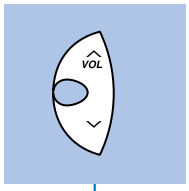
❶ Slide the left side.
❷ Press the right side until a "click" is heard.

Note

● An alarm is generated to remind you of the front panel when turning off the power.

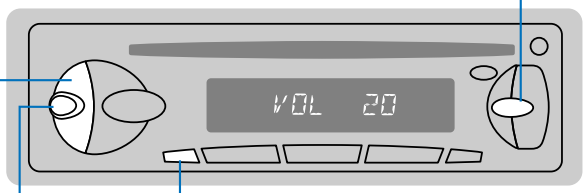
Power and Audio Controls

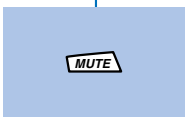
Volume adjustment



: Up
: Down

- Hold down: fast forward





[MUTE] :Toggle the Mute on and off.

- Mute the sound.

(Hold down over 2 sec.): Toggle Loudness on and off.

- Enhance bass and treble tones at low volume.

Power on

Start the engine first!

[SOURCE] : Turn the power on.

- [SOURCE] (Hold down) : Turn the power off.

Notes

- Power on
  - The volume increases gradually to the last level if that level was over 20.
  - When first powered up, a message is displayed
- [DISP]: Stop the message.
- [SOURCE](Hold down at power off) :Turn on the power and display the message.

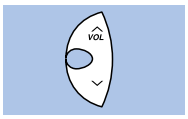
Sound quality adjustment

1

[SEL] : Select a mode.

Regular Mode → Volume → Bass → Treble → Balance → Fader → Regular Mode

2



[VOL] : Adjust the level.

: Up
: Down

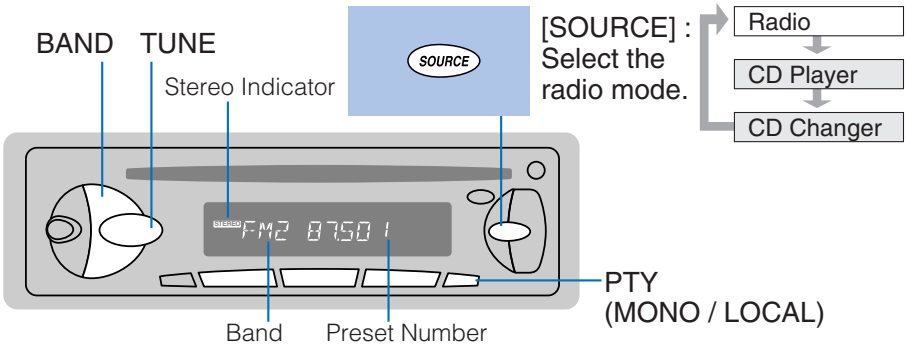
Bass	BAS 0dB	(–12 to +12 in 3 dB step)
Treble	TRE 0dB	(–12 to +12 in 3 dB step)
Balance	BAL CNT	(left/right : 1 to 15)
Fader	FAD CNT	(front/rear : 1 to 15)

Note

- No operation for 5 sec.
  ➡ Return to the regular mode.
- If the fader is set to front, the pre-amp output (rear) is decreased.

Radio Basics

How to listen to the radio



Preset memory / Tuning

● Up to 6 stations can be preset in each band (AM x 6, FM x 18 : FM1 - FM3)

■Automatic presetting

1 BAND — [BAND] : Select a band.

2 BAND — [BAND] (Hold down over 2 sec. ➡ release) :

Automatically tune the 6 stations with good reception and save them.

Preset stations are displayed for 5 sec. respectively.

■Tuning and Manual presetting

1 BAND — [BAND] : Select a band.

2 <TUNE> TRACK — [TUNE] : Select a station.

(Hold down over 0.5 sec. ➡ release) : Seek tuning

3 1 2 — Preset button (Hold down until one blink) : Register the station.

Station selection

■Use of preset button

1 BAND — [BAND] : Select a band.

2 1 2 — Preset button : Select a station.

■FM MONO / LOCAL (FM/AM)

PTY — [PTY] : Toggle the local mode on and off in an FM broadcast.

● FM mono : reduces noise.
● Local : auto-seeks only high-intensity stations.

■FM broadcast

(Hold down over 2 sec.)

MONO OFF / LOCAL OFF
MONO ON / LOCAL OFF
MONO ON / LOCAL ON
MONO OFF / LOCAL ON

■AM (LW/MW) broadcast

LOCAL OFF
LOCAL ON

Caution

● Never preset stations while driving the car.

Radio Data System (RDS)

- The RDS service and its availability vary with areas and stations.

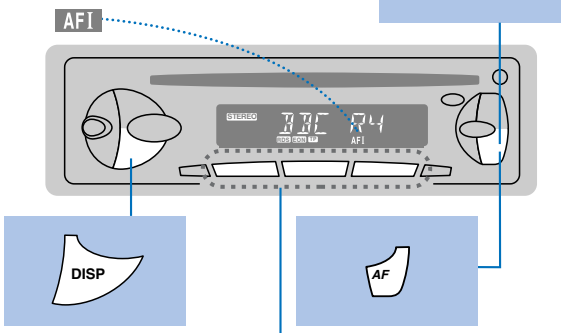
Alternative frequency (AF)

- The same program is auto-tuned depending on reception condition.

■ [AF] : Change the AF mode.

AF 1	AF tuning with normal sensitivity
AF 2	AF tuning with high sensitivity
OFF	No alternative frequency

(Default: AF1)



■ [DISP] : Change the display.

Program Service Name

3 sec.

Frequency

Clock Time

(Clock auto-adjusted)

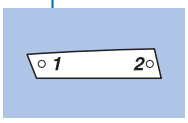
Note

- A station name is displayed when it is an RDS station.

■ [AF] : Toggle the region mode on and off.

[REG ON](Hold down over 2 sec.) : Tune in to a station that broadcasts the totally same program.

- [REG OFF](Hold down over 2 sec.) :Tune in to a station that broadcasts a different program in some cases.



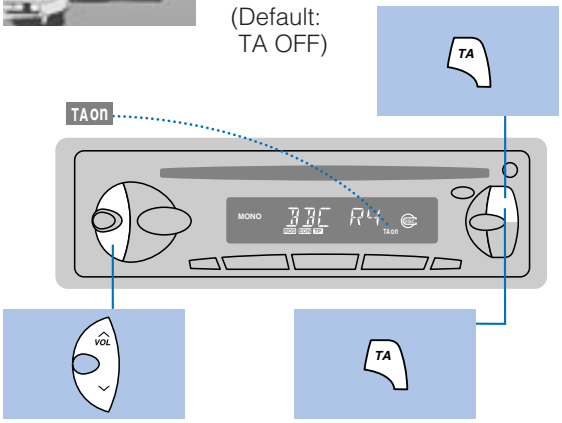
Periodical traffic information

- TP : RDS stations that provide traffic information periodically.
- TA : Radio announcement of traffic information.

■ [TA] : Toggles the TA mode on and off. (TP auto-tuned)

TA ON	[TA ON] : Automatically tune in to a TP when a station other than a TA station is being received.
TA OFF	

(Default: TA OFF)



■ TA volume

- TA volume should be adjusted while you are listening to a traffic announcement.

Note

TA standby

- A TA broadcast causes automatic change-over to radio mode.

■ TA or mute

- [TA](Hold down over 2 sec.) : Activate the "TA or mute" mode.
- [TA] : Cancel the "TA or mute" mode.

[TA](Hold down over 2 sec. again) : Cancel the "TA or mute" and the "TA ON" mode.

TP auto search

- Auto-tuned in to another TP when reception is poor.

■ Preset memory (Refer to Radio Basics for presetting.)

Automatic preset

- [BAND](Hold down over 2 sec.) : Preset stations (6 at a time)

Note

- AF 1 / AF 2 mode : Tune in to only RDS stations.

Manual preset

@[TUNE] : Select a station.
APreset the station to one of the preset buttons [1] to [6].

Note

- AF 1 / AF 2 mode : Seek tuning selects only RDS stations.

■ Preset tune (Refer to Radio Basics for preset tuning.)

- AF 1 / AF 2 mode : Auto-AF-tuned to station with good reception
- Press the same preset button again to tune in to an AF station with good reception if the reception of the current station is poor.

Note

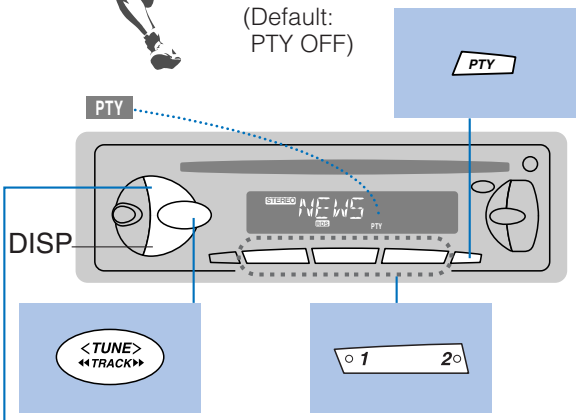
- This function is called "PI seek".

Program type selection

● Programs can be according to type such as news, rock-and-roll, juvenile programs, etc.

■ [PTY] : Toggle the PTY mode on and off. (PTY display)

PTY ON
↕
PTY OFF
(Default: PTY OFF)



■ PTY selection

@[TUNE] : Select a program type.

SPEECH → MUSIC →
NEWS → AFFAIRS →
INFO → SPORT →
EDUCATE → DRAMA →
CULTURES → SCIENCE →
VARIED → POP M →
ROCK M → M.O.R.M →
LIGHT M → CLASSICS →
OTHER M → WEATHER →
FINANCE → CHILDREN →
SOCIAL A → RELIGION →
PHONE IN → TRAVEL →
LEISURE → JAZZ →
COUNTRY → NATIONAL →
OLDIES → FOLK M →
DOCUMENT →

BAND

AA[BAND] : Seek a station.

■ PTY preset search

@Preset button : Select a preset program type.
(Ex.) NEWS 1

APress the same preset button.

■ Change of registered buttons

@[TUNE] or preset button: Select a preset program type.
(Ex.) SPEECH 2

APreset button (Hold down until one blink) : Reregister the contents.

Note

● [DISP] : Toggle the language between English and Swedish.

■ PTY preset

Preset by program type.

No.	Program type	Display	Contents
1	News	NEWS 1	NEWS
2	Speech	SPEECH 2	AFFAIRS / INFO EDUCATE / DRAMA CULTURES / SCIENCE VARIED / WEATHER FINANCE / CHILDREN SOCIAL A / RELIGION PHONE IN / TRAVEL LEISURE / DOCUMENT
3	Sport	SPORT 3	SPORT
4	Pop. music	POP M 4	POP.M
5	Classic music	CLASSICS 5	CLASSICS
6	Other Music	MUSIC 6	ROCK M / M.O.R.M LIGHT M / OTHER M JAZZ / COUNTRY NATIONAL / OLDIES FOLK M

Notes

■ Receiving EON data

● TA and AF functions will be enhanced with RDS information.
- TA : Traffic information from other stations can be received, too.
- AF : The AF list of RDS stations is always updated.

Example
- Even if you preset a station at a faraway location, AF allows you to receive the same program at home.
- Or AF automatically tunes in to a station that is broadcasting the same program. (This function is useful when reception is poor.)
- AF allows you to seek TP stations in local areas.

■ Emergency announcement

● "ALARM" blinks and the announcement is received automatically.
● Emergency announcements are received automatically except in the AM mode.

■ Clock adjustment

● RDS service automatically adjusts the integrated clock.

CD Player and CD Changer

How to listen to CDs

■ CD Player

Available Discs CD-R, CD-RW

Non-available 8 cm, MP3

This unit does not support CD text display.

1

CD loading
Insert a CD.
(Playback starts.)

Disc indicator :
Lights when CD is loaded.

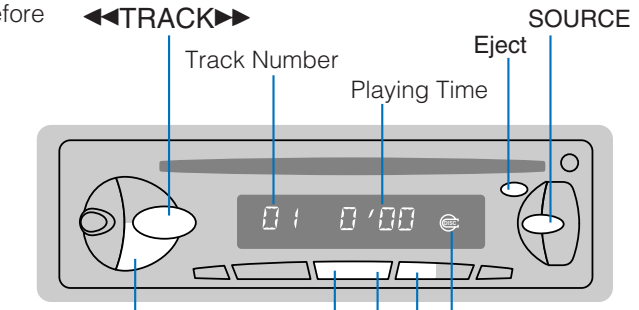
Make sure that the disc indicator is off before loading a disc. If the disc indicator is on, eject the disc, then load a new disc.

■ When a CD is already loaded

[SOURCE] :
Select CD Player.

(Playback starts.)

Radio → CD Player → CD Changer



2

[◀◀TRACK▶▶] : Select a track.

- Next track : ▶▶
- Start of current track : ◀◀ Press once
- Previous track : ◀◀ Press twice
- Hold down : ▶▶ Fast forward / ◀◀ Fast reverse

Release to play CD.

■Other functions

Scan Play SCAN ○3	Track	● 10-sec. play of every track. (once per track)
	Disc	● 10-sec. play of 1st track in every CD in magazine.
Repeat Play REPEAT 4○	Track	● Current track repetition.
Random play RANDOM ○5	Track	● Play in random order. ● Random play of every track in magazine/CD changer.

■Error indication

Message	Cause	Remedy
--E1--	● CD dirtied. ● CD upside down.	CD player ● Eject CD. CD changer ● Next CD auto-selected.
--E2--	● CD scratched.	
--E3--	→	● Eject the CD and consult your nearest Panasonic Service Center.
0000 (Changer)	● No CD in magazine.	● Insert CDs in magazine.

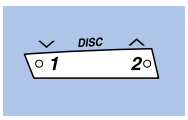
■ CD changer control (For CQ-RDP162/RDP112N)

- Use the CD changer exclusively to play back normal music CDs. It cannot play back CD-ROMs, CD-RWs or MP3s. (Some CD-Rs are supportedd, but not all.)
- This unit dose not support CD text display.

1

[SOURCE] : Select CD Changer.
(Playback starts.)

Disc Number Track Number

2 

[DISC] : Select a CD.

- Previous CD :
- Next CD :

3

[◀◀TRACK▶▶] : Select a track.

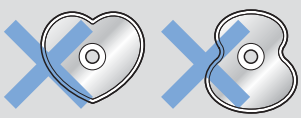
- Next track : ▶▶
- Start of current track : ◀◀ Press once
- Previous track : ◀◀ Press twice
- Hold down : ▶▶ Fast forward ◀◀ Fast reverse
  Release to play CD.

Cautions

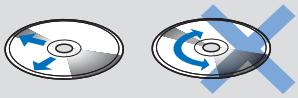
- Only CDs with the label at right are usable.
- Do not touch the recorded surface.

- Avoid leaving CDs in the following places.
  - Direct sunlight
  - Dirty or moist
  - Seats or dashboard

- Normal CDs only.



- Wipe CDs with a dry soft cloth in the direction specified at right.



Troubleshooting

- Never try to repair by yourself.

Something wrong?
(Ex. no sound, smoke and smell
➡ possibility of fire or shorting)
@Turn off the power immediately.
ADetach the power cord and bring the unit to your dealer.

Symptom	Check point
■ General	
No power	● Start the engine. (Or turn the ignition switch to the ACC position.) ● Verify the wiring. (Ex. battery cord, ACC cord, grounding cord, etc.) ● Fuse blown (Contact the nearest Panasonic Service Center.) ● Ask a professional for fuse replacement. ● Be sure to use the same rated fuse.
No sound	● Disable the mute function. ● Verify the wiring. ● Wait until the dew disappears before turning on the unit
Noise	● Keep a distance between this unit and an activated cellular phone.
■ RADIO	
Frequent noise	● Tune in to another high-intensity station. ● Extend the antenna fully.
Preset data deleted	● Connect the battery cord correctly.
■ CD Player	
No sound, or CD or CD-R is automatically ejected	● Load the CD correctly. ● Clean the CD.
Sound skip, poor sound quality	● Clean the CD.
Sound skip due to vibration	● The maximum permissible tilt is 30° from front to rear. ● Secure the unit.
CD not ejectable	● Turn off the car engine (ACC off) and remove the fuse from the battery lead (yellow) for 1 minute or more. Then reinstall the fuse.
■ Sound quality	
Any one of speakers (front, rear, right and left) does not generate sound.	● Adjust the balance and fader. ● Verify the wiring.
Left and right sounds are reversed	● Connect the speaker cord correctly.

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